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Professor of Internal Medicine
University of Michigan Health System
Center for Clinical Management Research
Ann Arbor VA HSR&D Center of Excellence
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CURRICULUM VITAE

Education and Training

Education

09/75-06/80 Biochemistry AB, Harvard University, Cambridge, MA
09/81-06/85 MD, School of Medicine, University of California, San Francisco, CA
09/89-06/91 MSc, Program in Clinical Epidemiology, Research and Design and Statistical Analysis, Department of Biostatistics, School of Public Health, University of Michigan, MI
07/91 Visiting Scholar-Summer Program, Inter-university Consortium for Political and Social Research, Ann Arbor, MI
09/91-05/92 Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, MI

Postdoctoral Training

07/86-06/87 Intern, University of California, San Francisco Hospitals.
07/87-07/89 Resident, University of California, San Francisco Hospitals Internal Medicine - primary care track based at San Francisco General Hospital.
07/89-06/91 Postdoctoral Fellowship, National Center for Health Services Research Fellowship in General Internal Medicine, Division of General Internal Medicine, University of Michigan Medical Center.

Senior Postdoctoral Training

09/01-09/02 Sabbatical leave, Ann Arbor, MI

Certification and Licensure

Medical Licensure

Board of Medicine Physician License, State of Michigan (#4301054922)
Expires 01/31/2011

Board of Pharmacy Controlled Substance License, State of Michigan (#4301054922)
Expires 01/31/2011

Controlled Substance Certificate, Drug Enforcement Administration (#BH1337042)
Expires 010/31/2011

Board of Medicine Physician License, State of California (#G61857)
Expires 10/31/2009

Board Certification

American Board of Internal Medicine, 1989-Present
National Board of Medical Examiners, Diplomate, 1985-Present

Other Certification

ACLS Certificate, American Heart Association
Expires 02/2011

BLS Certificate, American Heart Association
Expires 06/2010

Academic, Administrative, and Clinical Appointments

Academic Appointments

7/91-8/93	Lecturer, Division of General Medicine, Department of Internal Medicine, University of Michigan and Department of Ambulatory Care, Ann Arbor VA.
7/93-present	Health Services Research Scientist, Health Services Research and Development, Center of Excellence, Ann Arbor VA.
9/93-9/95	Instructor, Division of General Medicine, Department of Internal Medicine, University of Michigan and Department of Ambulatory Care, Ann Arbor VA.
9/95-8/00	Assistant Professor, Division of General Medicine, Department of Internal Medicine, University of Michigan
9/00-8/08	Associate Professor, Division of General Medicine, Department of Internal Medicine, University of Michigan.
9/08	Professor, Division of General Medicine, Department of Internal Medicine, University of Michigan.

Clinical Hospital Appointments

7/91-present	Physician, University of Michigan Hospital
7/91-present	Physician, Ann Arbor VA Hospital

Research Interests

1. Development and measurement precision of healthcare performance indicators at the patient, provider and organization level.
2. Developing systems for accurately monitoring and improving clinical outcomes and processes of care.
3. Adequacy of risk adjustment for examining variation in healthcare outcomes.
4. Social and economic factors predicting healthcare utilization.

Grants

Current

- 1 R 18DK076622 (M Heisler/EA Kerr) 08/01/07-07/31/11
NIDDK Total award \$2,179,092
Improving adherence and intensification of medications among diabetes patients.
Role: Co-Investigator
- 2 R01 CA109696-04 (S Katz) 09/01/08-08/31/11
NIH Total award: \$1,542,334
Racial/Ethnic Disparities in Work and QoL Outcomes in Survivors of Breast Cancer
Role: Co-Investigator
- R01 CA088370 (S Katz) 07/01/06-06/31/10
NIH Total award: \$1,360,000
Health System Factors and Patient Outcomes in Breast Cancer.
Role: Co-Investigator
- 1 R01 NR010700 (S Saint/S. Krein) 07/01/08-04/30/12
NIH Total direct costs \$427,198
Implementing Evidence to Prevent Urinary Infection and Enhance Patient Safety
Role: Co-Investigator
- 59964 (R Hayward) 07/01/05-06/30/15
Robert Wood Johnson Foundation Total award \$10,000,000
The Robert Wood Johnson Foundation Clinical Scholars Training Program.
Role: Core Faculty
- HFP-83-014 (EA Kerr) 10/01/01-09/30/12
VA Center of Excellence, HSR&D Total Direct Costs \$7,000,000.
Center for Practice Management and Outcomes Research.
Role: Director, Measurement and Analysis Core

DIB 98-001 (EA Kerr) 10/01/04-09/30/09
VA HSR&D Merit Program Total award \$1,400,000
Quality Enhancement Research Initiative – Diabetes Mellitus (QUERI DM)
Role: Co-Investigator

SDP 06-128 (M Heisler/ EA Kerr) 07/01/07-06/30/10
VA HSR&D Merit Program Total award \$829,100
Adherence and intensification of medications: a population-based clinical pharmacist
implementation study among hypertensive diabetes patients.
Role: Co-Investigator

IIR 06-253-2 (S Vijan) 01/01/08-12/31/10
VA HSR&D Merit Program Total direct costs \$410,200
Improving quality management using quality adjusted life years.
Role: Co-Investigator

Previous

VA Merit, Health Services Research and Development (IIR 02-225).
Addressing Barriers to Translation for Treatment of Hypertension.
3/1/2004-2/28/2008. Total direct costs \$1,256,563.
Role: Principal-investigator (with EA Kerr co-PI).

NIH (5R01CA109696-02)
Breast Cancer Treatment Decisions & Outcomes in Latinas.
9/1/2005-8/30/2007.
Role: Co-Investigator (Principal Investigator: S Katz).

VA Merit, Health Services Research and Development (SAF 04-031)
Translating Infection Prevention Evidence into Practice
10/1/2004-12/31/2007. Total direct costs \$799,655.
Role: Co-investigator (Principal Investigator: S Krein).

NIH (R01 CA106782-01)
Cost Effectiveness of Genetic Screening for Colon Cancer.
6/1/2004-5/31/2007. Total direct costs \$567,000.
Role: Co-investigator (Principal Investigator: S Vijan).

Robert Wood Johnson Foundation.
RWJ Clinical Scholars Program Planning Grant.
7/1/2003-6/30/2005. Total award \$400,000.
Role: Co-investigator (Principal Investigator: J Howell).

VA Merit, Health Services Research and Development (IIR 02051-1)
Variation in ICU Outcomes.
10/1/2002-9/30/2004. Direct Costs \$234,900
Role: Co-Investigator (Principal Investigator: M Render).

AHRQ (P20-H511540-01)
Targeting Interventions to Reduce Errors.
9/1/2001-9/29/2004(NCTX 9/29/05). Total award \$600,000.
Role: Principal Investigator.

Robert Wood Johnson Foundation
RWJ Clinical Scholars Program.
7/1/2001-6/30/2005. Total award \$4,000,000.
Role: Core faculty (Principal Investigator: J Howell).

Robert Wood Johnson Foundation.
Trends in Breast and Cervical Cancer Screening in the United States and Canada.
1/1/2001-6/30/2002. Total award \$49,913.
Role: Co-investigator (Principal Investigator: S Katz).

VA Merit, Health Services Research and Development (Grant #IIR 99257-1) Automated
ICU Risk Adjustment Performance.
7/1/2000-6/3/2002. Total direct costs \$503,400
Role: Co-Investigator (Principal Investigator: M Render).

VA Merit, Health Services Research and Development (IIR 98103-1)
Evaluating the Performance of Explicit Quality Monitoring Systems in the VHA.
1/1/2000-9/30/2003. Total direct costs \$739,219.
Role: Co-Investigator (Principal Investigator: EA Kerr).

VA Center of Excellence, Health Services Research and Development
Center for Practice Management and Outcomes Research.
10/1/1999-9/30/2004. Total direct costs \$3,000,000
Role: Director, Measurement and Analysis Core (Principal Investigator: R Hayward).

Robert Wood Johnson Foundation (HCFO Proposal P-218)
A Comparison of Risk-Adjustment Methodologies Used in Profiling Physician Practice
Efficiency.
5/1/1999-4/30/2001. Total award \$448,707.
Role: Co-Investigator (Principal Investigator: JW Thomas).

NIH/NIDDK (Grant# 5 P60 DK20572)
Michigan Diabetes Research and Training Center.
12/1/1998-11/30/2006.
Role: Co-Investigator (Principal Investigator: WH Herman).

VA Merit, Health Services Research and Development (IIR 97078-1)
Patient Preferences and the Care of Diabetes.
9/1/1998-08/31/2001. Total direct costs \$280,000.
Role: Co-Principal Investigator.

Agency for Health Policy Research (AHCPR) (HS09838)
Medical Innovations and Changes in Practice Patterns
8/1/1998-8/1/2000.
Role: Co-Investigator (Principal Investigator: M Chernew).

VA Merit, Health Services Research and Development (DIB 98-001)
Quality Enhancement Research Initiative Diabetes Mellitus.
7/1/1998-6/30/2003. Total direct costs \$1,000,000.
Role: Co-Investigator (Principal Investigator: RA Hayward).

VA Merit, Health Services Research and Development (Award #RCD 91-303)
Where Report Cards Fear to Tread: Patient Preferences, Physician Communication and
Multiple Diagnoses. Advanced Research Career Development Award, Research Associate
Level II
7/1/1998-6/30/2001. Total direct costs \$425,000.
Role: Principal Investigator.

National Cancer Institute (R03-CA72620-01)
Preventive Services Utilization in Canada and the United States.
12/1/1996-12/1/1997.
Role: Investigator (Principal Investigator: S Katz).

VA Center for Practice Management and Outcomes (LIP 41-076)
Comparing Risk-Adjusted LOS with Variation in Intensity of Service and Severity of Illness
9/30/1995-9/30/1996. Total direct costs \$35,000.
Role: Principal Investigator.

VA Merit, Health Services Research and Development (IIR 94-131)
Evaluation Quality of Care Screens from Laboratory Databases.
9/1/1995-2/28/1999. Total award \$575,000.
Role: Principal Investigator.

VA Merit, Health Services Research and Development (RCD-91-303)
Evaluating Indicators of Quality and Efficiency of Health Care
7/1/1995-6/30/1998. Total direct costs \$375,000.
Role: Research Career Development Award, Research Associate Level I, Principal Investigator.

Robert Wood Johnson Foundation.
Comparing Hospital and Physician Resource Use in Canada and the United States.
9/1993-9/1994. Total award \$49,998.
Role: Principal Investigator.

Honors and Awards

1980	Magna cum laude, A.B. in Biochemistry, Harvard University.
1993	Junior Faculty Award for outstanding scientific presentation at the Society for General Internal Medicine, national meeting, May 1993.
1995	Outstanding Scientific Presentation awardee. Annual VA Health Services Research & Development Service Meeting, 2/28-3/3/1995. (Re-presented at International Scientific Basis of Health Services Conference, September 1995.)
1996	Finalist, Third Annual National Institute for Health Care Management Research Award for a paper titled "Identifying poor quality hospitals: Can hospital mortality rates be useful?"
1998	Finalist, Peter Reizenstein Prize for best paper published in 1997 in The International Journal for Quality in Health Care.
1998	Blue Cross Blue Shield of Michigan Foundation 1997 Excellence in Research Award for Physicians in the area of Health Policy.

Memberships in Professional Societies

1991-present	Society for General Internal Medicine, Member
1991-present	American College of Physicians, Member
1996 - 2000	Central Society for Clinical Research, Member

Editorial Positions, Boards, and Peer-Review Service

Study Sections

11/07-2/08	Member (AdHoc) Study Section on Health Services Organization and Delivery (HSOD), Center for Scientific Review, National Institutes of Health
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Reviewer

1992-present	Medical Care (*2001 Award for review quality in top 5%)
1996-present	Journal of the American Medical Association
1997-present	Journal of General Internal Medicine
1999-present	American Journal of Medicine
1999-present	Annals of Internal Medicine
1999-present	Health Services Research
2000-present	American Journal of Managed Care
2001-present	Health Services and Outcomes Research Methodology
2001-present	Medical Care Research and Review
2002-present	Lancet
2003-present	Medical Decision Making
2004-present	Quality and Safety in Healthcare
2004-present	New England Journal of Medicine
2005-present	Journal of the American Board of Family Medicine
2005-present	Critical Care
2005-present	Health Affairs

Teaching

University of Michigan

Regular Teaching Responsibilities

1992-present	Attending physician for general medical clinics at the Ann Arbor VA-responsible for direct supervision, teaching and monthly ambulatory care conference.
1992-present	Attending physician on inpatient service, Ann Arbor VA hospital one month per year - responsible for patient care, resident and medical student education including 7-8 didactic hours per week.
1994-1999	Robert Wood Johnson Clinical Scholars Program - Faculty Associate.
1995-2001	Introduction to Clinical Medicine: "Reading the medical literature." Small group session leader. Second year medical students.
1995-2001	Small group session leader, "Health Policy Seminar series." Second year medical students Introduction to Clinical medicine.
1997-1998	Hewlett Service Teaching Rounds.
1997-1999	Clinical Counselor to Senior Medical Students, Department of Medicine.
1998-2002	ITTP Problem Based Learning Ethics small group session facilitator.
1999-present	Robert Wood Johnson Clinical Scholars Program – Core Faculty. (involving significant participation in multiple teaching activities, including course planning for a new University-approved Masters program, multiple lectures and one-on-one mentoring)

2002-present NIH K30 Training Program in Clinical Research – faculty.
 2005-present Research Design and Analysis , course coordinator and co-leader– RWJ Clinical Scholars Program, Masters program.

Other Teaching

1998 Invited presentation: “Diabetes Mellitus Tight Control - The good the bad and the ugly.” Advances in Internal Medicine Conference, University of Michigan Department of Medicine, May 1998.
 1999 Faculty Evaluator - Comprehensive Clinical Assessment Exam for Medical Students, 7/12/1999 [4.5 hrs].
 2005 Invited Presentation: “Clustered data and why you should care about it.” OB/GYN Health Services Research Group, 1/6/2005 [2 hrs].
 2006 EBM--Health Services Outcomes. Medical Student M1, 12/7/2006 [3 hrs].
 2007 EBM—Health Services Outcomes, Medical Student M4, 3/7/2007 [2 hrs].
 2008 Introduction to Clinical Medicine Medical Student M1: “Patients and Populations”.(1) Biostatistics and clinical epidemiology: understanding and applying principles of study design, statistical significance, observational studies and confounding. Small group session leader. 8/14/2008 [6 hours]

Dissertation Committees

1998-2000 Molla Donaldson, PhD candidate. Title: Continuity of Care: An Agency Theory Approach. Department of Health Management and Policy, School of Public Health.

Research Mentoring

1995-2004 Primary Mentor: VA Career Development Award (1999-2001), VA Senior Career Development Award (2002-2004) also simulation methods for principal fellowship project (1995-1997), Sandeep Vijan, MD, Assistant Professor, General Medicine.
 1996-1997 Mentor: Methodological support for third year resident project, Scott Furney, MD, Internal Medicine Resident.
 1998-1999 Mentor: Reliability analyses for pilot project and grant planning, David Stern, MD, Assistant Professor.
 1998-2000 Mentor: Logistic regression methods and study design, Andrew Rosenberg, MD, Robert Wood Johnson Clinical Scholar
 1998-2000 Mentor: Quality assessment and regression methods, Sanjay Saint, MD, Assistant Professor.
 1999-2000 Mentor: Methodological support for third year resident project, Michele Heisler, MD, Internal Medicine Resident.
 2002 Mentor: K23 Award application, Catherine Kim, MD, Asst. Prof. Internal Medicine, UM.
 2002-2005 Mentor: VA Merit Review Entry Program Career Development Award Application: Emily Patterson, PhD, VA GAPS Patient Safety Center, Cincinnati Ohio.

- 2002-2005 Mentor: K23 & VA CD Award application: Lona Mody, MD, Fellow in Division of Geriatrics, UM.
- 2003-present Mentor: VA Advanced CD Award application: Sanjay Saint, MD, UM Associate Professor.
- 2004-2005 Scientific Advisor: NIH K-30: Paul Chan, MD, UM Cardiology Fellow.
- 2004-2006 Scientific Advisor: NIH K-12 (RR017607-01): Brahmajee Nallamothu, MD, UM Assistant Professor

Committee, Organizational, and Volunteer Service

Steering committees

- 2000-2005 Chair, Expert Panel on Methodology. VA Inpatient Evaluation Center (IPEC), located in Cincinnati, formed in July 2005 by the Under Secretary for the Department of Veterans Affairs. A national program to improve patient outcomes from acute care hospitalization, starting with the Intensive Care Unit (ICU), through feedback of outcomes and processes to providers.
- 2000-2006 VA Merit Research Enhancement Award Program (REAP), Center grant. "TECHS Tools Ensuring Consumer Healthcare Safety", VA Health System of Ohio.

Local

- 1995-present Chair, Computing and Data Management Committee, Ann Arbor VA, Health Services Research and Development, Field Program.
- 1996-2005 Research and Recruitment Committee, Ann Arbor VA, Health Services Research and Development, Field Program.
- 1997-1998 Ford/UMHS Partnership Health Data Management/Analysis Team.
- 1998-2000 Co-chair, Steering Committee for CPRS (electronic medical record) Introduction, Ann Arbor VAH.
- 2002-2005 Ann Arbor VA Research and Development Committee.
- 2003-present Ann Arbor VA, Health Services Research and Development COE Appointment and Promotions Committee

National and Regional (1996 to present)

- 1996-2004 Standing Committee for Information Management, Veterans Integrated Service Network 11.
- 1999 Abstract Selection Committee, Provider/Organization Centered Issues, Society for General Internal Medicine National Meeting.
- 1996-1997 Career Development Program Review Committee reporting to the Chief Research and Development Officer, VA.
- 1999-2000 Michigan Blue Cross Profiling Advisory Group.
- 2001-2002 Analytic Methodology Panel, Doctors Office Quality Project, Centers for Medicare and Medicaid Services (CMS, formerly HCFA).

2001-2002	Technical Expert Panel, Doctors Office Quality Project, Centers for Medicare and Medicaid Services (CMS, formerly HCFA).
2002-2003	Scientific program committee of the 2003 ICHPR (International Conference on Health Policy Research) at the biennial meetings of the Health Policy Statistics section of the American Statistical Association.
2003	Abstract Selection Committee, Quality and Patient Safety Theme, 2003 Academy Health 20th Annual Research Meeting.
2004-2005	Scientific program committee of the 2005 ICHPR (International Conference on Health Policy Research) at the biennial meetings of the Health Policy Statistics section of the American Statistical Association.
2006	Invited participant, NCQA Benchmarking Physician Performance: Current Practice and Research Needs. Washington DC, 1/11/2006.
2006-2007	Co-Chair, Quality of Care Review Subcommittee, Society of General Internal Medicine 2007 National Meeting Planning Committee
2006-present	Technical Advisor to Veterans Affairs Performance Management, Office of Quality and Performance. Workgroup charged with the development of a clinical performance management system for the VHA.
2006-present	Member, Health Information Services Executive Board (HISEB) for Health Data Systems, VA Office of Information Technology. Provides leadership and oversight of VHAs Health Data Systems portfolio. Duties include: ensuring that the portfolio meets current and future needs of VHA customers, ensuring effective resource utilization, and overseeing the performance, planning and execution of systems within each portfolio.
2008-present	Member, Centers for Medicare & Medicaid Services CMS Technical Expert Panel (TEP), to identify and develop quality measures for hospital outpatient departments and ambulatory surgical centers (ASC) to be used for quality improvement, intervention, evaluation and monitoring as required by the Tax Relief Health Care Act (TRHCA) of 2006.

Visiting Professorships, Seminars, and Extramural Invited Presentations

Extramural invited presentations

- “Detecting a shadow in the dark: Is it possible to avoid the pitfalls in measuring quality and efficiency?” VA Career Development Meeting, 2/12/1997.
- “Measuring quality and efficiency” Division of General Internal Medicine Research Conference, UCSF-San Francisco VA, San Francisco, CA, 6/19/1997.
- “Provider Profiling.” Department of Surgery Research Conference, St Joseph’s Hospital, Ann Arbor, Michigan, 9/27/1998.
- “Reliability of peer review.” Michigan State Medical Society Annual Meeting, Troy, Michigan, 11/7/2002.
- “Measurement properties of implicit medical record review.” Conference on Tools and Methods for Monitoring Patient Safety: The Role of Medical Record Review, Agency for Health Care Quality and Research, Arlington Virginia, Saturday 3/1/2003.

- "Constructing and Reporting Provider Profiles" (invited presentation and panelist). 2003 ICHPR (International Conference on Health Policy Research) at the biennial meetings of the Health Policy Statistics section of the American Statistical Association, Chicago, IL, 10/18/ 2003.
- "Quality Measurement through peer review." Michigan State Medical Society Annual Meeting, Troy, Michigan, 11/5/2003.
- "From explicit to implicit. A comparison of three different methods of assessing quality of care." (Invited research seminar) Department of Public Health and Epidemiology, University of Birmingham, England, 2/17/2004.
- "The Science of Quality Measurement: Are We Getting It Right?" (invited panelist) Academy Health meeting, San Diego, 6/6-6/8/2004.
- "Measurement of Error – measurement theory and the detection of medical errors" Making Health Care Safer Conference, (invited presentation and session leader), Royal College of Physicians of London, England, 10/21-10/22/2004.
- "Implicit methods of assessing adverse events and quality of care." (Invited research seminar) Medical Research Council (MRC), Patient Safety Methodology Network Workshop, Department of Public Health and Epidemiology, University of Birmingham, England, 12/7/2005.
- "Clinical inertia. What is it? How much is there?" Department of Health Studies Seminar Series, Department Health Studies, University of Chicago, 1/24/2007.
- "Design and technical aspects of performance measurement" Academy Health National Meeting Special Director's Session on Performance Measurement. Orlando, FL, 6/4/2007.
- "Clinical inertia and provider decisions when faced with a high risk hypertensive patient" UCSF Division of General Medicine – Fellows Seminar, UCSF, 9/26/2007.
- "Measuring health care quality: Design and technical aspects of performance measurement." The ATS Project Committee: Pay for Performance in Pulmonary and Critical Care Medicine, chaired by Dr. Jeremy Kahn. ATS International Conference, Toronto, May 17, 2008.
- "Maintain the focus on quality and quality improvement (avoiding unintended consequences)" Bone Marrow transplant workshop, Center-Specific Outcomes Analysis Forum(SCTOD), Center for International Blood and Marrow Transplant Research (CIBMTR), September 26-27, 2008 Milwaukee, Wisconsin
- "Composite Measures of Quality" invited presentation at a the Advancing Quality Measurement in VA conference, sponsored by the Office of Quality Performance and Health Services Research & Development, Washington, Oct 2008.

Other presentations

- "Screening intervals for diabetic retinopathy: Are current guidelines justifiable?" VA Health Services Research and Development National Meetings. Washington, 2/18-2/20/1998.
- "Estimated benefits in reduction of microvascular complications from a national screening program for type 2 Diabetes." Society for General Internal Medicine, National Meeting, April 1998.

- “Discussion between reviewers does not improve reliability of peer review of hospital quality.” Society for General Internal Medicine, National Meeting, April 1999.
- “Variation at provider, team and facility level for profile measures related to diabetes care.” 3rd International Conference on the Scientific Basis of Health Services Research, Toronto, October 1999.
- “Have Deaths Due to Medical Errors Been Overestimated.” 3rd International Conference on the Scientific Basis of Health Services Research, Toronto, October, 1999.
- “Automated Intensive Care Unit severity.” VA Health Services Research and Development National Meetings, Washington, 3/22-3/24/2000.
- “Variation at Provider, Team and Clinic Site Level for Profile Measures Related to Diabetes Care.” Society for General Internal Medicine 23rd Annual Mtg, May 2000.
- “Evaluating Quality of Care Screens from Laboratory Databases.” VA Health Services Research and Development National Meetings. Washington, 2/14-16/2001.
- “Physician’s understanding and misunderstanding of diabetes care priorities” Plenary Session, VA Health Services Research and Development National Meetings. Washington, 2/13-15/2002.
- “Measuring Quality of Care: Is there a role for peer review?” VA Health Services Research and Development National Meetings. Washington, 2/13-2/15/2003.
- “If you can't measure it you can't change it” Making the Health Care System Safer: 3rd Annual Patient Safety Research Conference. Washington, 9/27-28/2004.
- "Methods for Recognizing and Adjusting for Measurement Error" Workshop for HSR&D National Meeting 2005: Improving Care for Chronic Illnesses, Baltimore MD, 2/16-2/18/2005.
- “Providers vary substantially in their propensity to intensify blood pressure treatment.” Society for General Internal Medicine, National Meeting, April 2006.
- “Prevalence and causes of apparent clinical inertia among patients with diabetes and hypertension.” Society for General Internal Medicine, National Meeting, April 2007.

Bibliography

Peer Reviewed Journals and Publications

1. Katz SJ, Hofer TP. Socioeconomic disparities in preventive care persist despite universal coverage. Breast and cervical cancer screening in Ontario and the United States. *JAMA* 1994 Aug; 272(7):530-534.
2. Goold SD, Hofer TP, Zimmerman M, Hayward RA. Measuring physician attitudes toward cost, uncertainty, malpractice, and utilization review. *J Gen Intern Med* 1994 Oct; 9(10):544-549.
3. Hofer TP, Weissfeld J. Designing a simpler high blood cholesterol case detection strategy: are the advantages of the NCEP protocol worth the complexity? *Med Decis Making* 1994 Oct-Dec; 14(4):357-368.
4. Hofer TP, Hayward RA. Can early re-admission rates accurately detect poor-quality hospitals? *Med Care* 1995 Mar; 33(3):234-245.

5. Katz SJ, Hofer TP, Manning WG. Physician use in Ontario and the United States: The impact of socioeconomic status and health status. *Am J Public Health* 1996 Apr; 86(4):520-524.
6. Katz SJ, Hofer TP, Manning WG. Hospital utilization in Ontario and the United States: the impact of socioeconomic status and health status. *Can J Public Health* 1996 Jul-Aug; 87(4):253-256.
7. Hofer TP, Hayward RA. Identifying poor-quality hospitals. Can hospital mortality rates detect quality problems for medical diagnoses? *Med Care* 1996 Aug; 34(8):737-753.
8. Hofer TP, Katz SJ. Healthy behaviors among women in the United States and Ontario: the effect on use of preventive care. *Am J Public Health* 1996 Dec; 86(12):1755-1759.
9. Bernstein SJ, Hofer TP, Meijler AP, Rigter H. Setting standards for effectiveness: a comparison of expert panels and decision analysis. *Int J Qual Health Care* 1997 Aug; 9(4):255-263.
10. Hofer TP, Bernstein SJ, Hayward RA, DeMonner S. Validating quality indicators for hospital care. *Jt Comm J Qual Improv* 1997 Sep; 23(9):455-467.
11. Vijan S, Hofer TP, Hayward RA. Estimated benefits of glycemic control in microvascular complications in type 2 diabetes. *Ann Intern Med* 1997 Nov; 127(9):788-795.
12. Hofer TP, Wolfe RA, Tedeschi PJ, McMahon LF, Griffith JR. Use of community versus individual socioeconomic data in predicting variation in hospital use. *Health Serv Res* 1998 Jun; 33(2 Pt 1):243-259.
13. Thomas JW, Bates EW, Hofer TP, Perkins A, Foltz-Murphy N, Webb C. Interpreting risk-adjusted length of stay patterns for VA hospitals. *Med Care* 1998 Dec; 36(12):1660-1675.
14. Thomas JW, Hofer TP. Research evidence on the validity of risk-adjusted mortality rate as a measure of hospital quality of care. *Med Care Res Rev* 1998 Dec; 55(4):371-404.
15. Thomas JW, Hofer TP. Accuracy of risk-adjusted mortality rate as a measure of hospital quality of care. *Med Care* 1999 Jan; 37(1):83-92.
16. Hofer TP, Hayward RA, Greenfield S, Wagner EH, Kaplan SH, Manning WG. The unreliability of individual physician "report cards" for assessing the costs and quality of care of a chronic disease. *JAMA* 1999 Jun; 281(22):2098-2105.
17. Hofer TP, Bernstein SJ, DeMonner S, Hayward RA. Discussion between reviewers does not improve reliability of peer review of hospital quality. *Med Care* 2000 Feb; 38(2):152-161.
18. Vijan S, Hofer TP, Hayward RA. Cost-utility analysis of screening intervals for diabetic retinopathy in patients with type 2 diabetes mellitus. *JAMA* 2000 Feb; 283(7):889-896.
19. Katz SJ, Zemencuk JK, Hofer TP. Breast cancer screening in the United States and Canada, 1994: socioeconomic gradients persist. *Am J Public Health* 2000 May; 90(5):799-803.
20. Hofer TP, Vijan S, Hayward RA. Estimating the microvascular benefits of screening for type 2 diabetes mellitus. *Int J Technol Assess Health Care* 2000; 16(3):822-833.
21. Vijan S, Hofer TP, Hayward RA. How often should patients with diabetes Be screened for retinopathy? *JAMA* 2000 Jul; 284(4):437-439.
22. Render ML, Welsh DE, Kollef M, Lott JH 3rd, Hui S, Weinberger M, Tsevat J, Hayward RA, Hofer TP. Automated computerized intensive care unit severity of illness measure in

- the Department of Veterans Affairs: preliminary results. SISVistA Investigators. Scrutiny of ICU Severity Veterans Health Systems Technology Architecture. *Crit Care Med* 2000 Oct; 28(10):3540-3546.
23. Saint S, Wiese J, Amory JK, Bernstein ML, Patel UD, Zemencuk JK, Bernstein SJ, Lipsky BA, Hofer TP. Are physicians aware of which of their patients have indwelling urinary catheters? *Am J Med*. 2000 Oct; 109(6):476-480.
 24. Hofer TP, Kerr EA, Hayward RA. What is an error? *Eff Clin Pract* 2000 Nov-Dec; 3(6):261-269.
 25. Rosenberg AL, Hofer TP, Hayward RA, Strachan C, Watts CM. Who bounces back? Physiologic and other predictors of intensive care unit readmission. *Crit Care Med* 2001 Mar; 29(3):511-518.
 26. Hayward RA, Hofer TP. Estimating hospital deaths due to medical errors: preventability is in the eye of the reviewer. *JAMA* 2001 Jul; 286(4):415-420.
 27. Kerr EA, Krein SL, Vijan S, Hofer TP, Hayward RA. Avoiding pitfalls in chronic disease quality measurement: a case for the next generation of technical quality measures. *Am J Manag Care* 2001 Nov; 7(11):1033-1043 .
 28. Nallamothu BK, Saint S, Ramsey SD, Hofer TP, Vijan S, Eagle KA. The role of hospital volume in coronary artery bypass grafting: is more always better? *J Am Coll Cardiol* 2001 Dec; 38(7):1923-1930.
 29. Vijan S, Hwang EW, Hofer TP, Hayward RA. Which colon cancer screening test? A comparison of costs, effectiveness, and compliance. *Am J Med* 2001 Dec; 111(8):593-601.
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